

Presentation to the Maryland State Data Center Annual Affiliates Meeting June 22, 2016



## The Decennial Census

#### Purpose:

To conduct a census of population and housing and disseminate the results to the President, the States, and the American People

#### Primary Uses of Decennial Census Data:

 Apportion representation among states as mandated by Article 1, Section 2 of the United States Constitution:

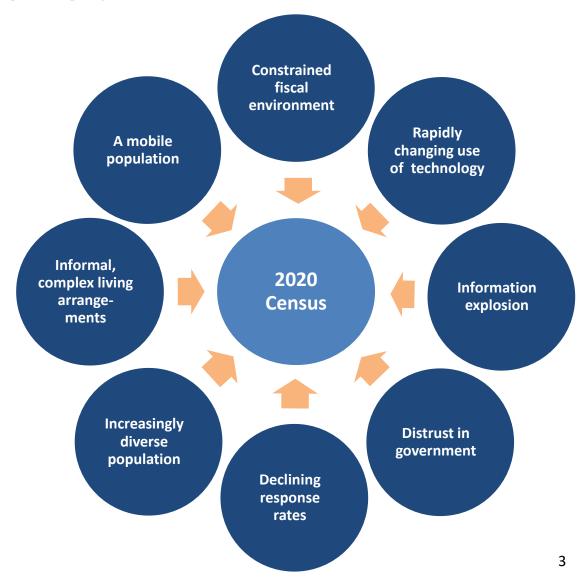
Representatives and direct Taxes shall be apportioned among the several States which may be included within this union, according to their respective Numbers ... The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten years, in such Manner as they shall by Law direct.

- Draw congressional and state legislative districts, school districts and voting precincts
- Enforce voting rights and civil rights legislation
- Distribute federal dollars to states
- Inform federal, tribal, state, and local government planning decisions
- Inform business and nonprofit organization decisions (e.g., where to locate, size of the market)
- Provide population benchmark for nearly every other United States survey

# The Decennial Census

# The 2020 Census Environment

The 2020 Census is being conducted in a rapidly changing environment, requiring a flexible design that takes advantages of new technologies and data sources while minimizing risk to ensure a high quality population count.



## Goals and Key Innovation Areas

Overarching Goal: To count everyone once, only once, and in the right place

<u>Challenge Goal:</u> Conduct a 2020 Census at a lower cost per housing unit (adjusted for inflation) than the 2010 Census, while maintaining high quality results

#### **Focus on Four Key Innovation Areas**

Reengineering Address Canvassing

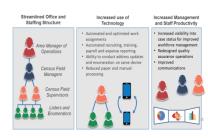
Optimizing Self-Response Utilizing
Administrative
Records and ThirdParty Data

Reengineering Field Operations



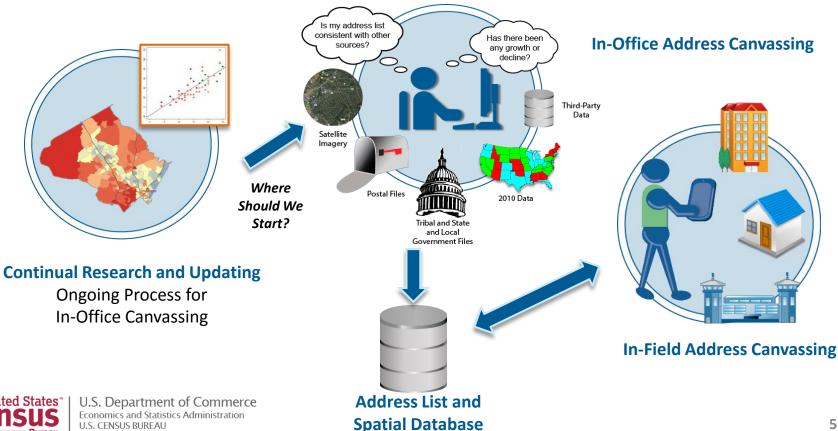






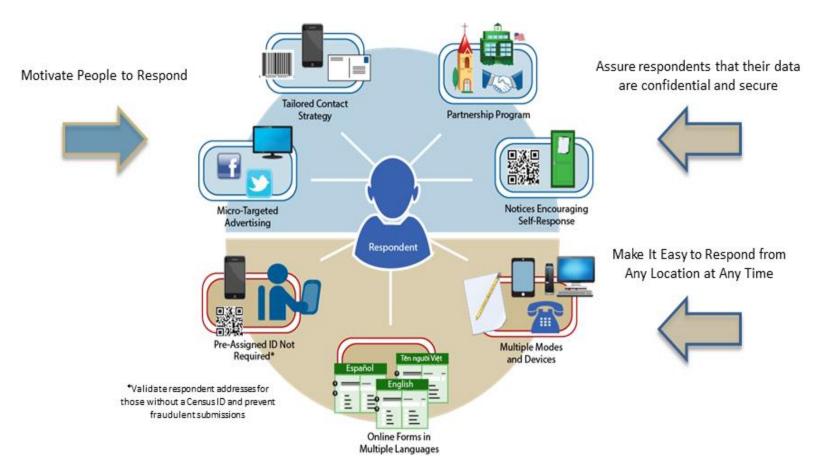
# Reengineering Address Canvassing

Reduce the nationwide In-Field Address Canvassing by developing innovative methodologies for updating and maintaining the Census Bureau's address list and spatial database throughout the decade



# **Optimizing Self Response**

Generate the largest possible self-response, reducing the number of households requiring follow-up



# **Utilizing Administrative Records**

Use information people have already provided to reduce expensive in-person follow-up

Improve the quality of the Frame



Update the Frame



Validate incoming data from federal, tribal, state, and local governments

Increase effectiveness of advertising and contact strategies



Support the microtargeted advertising campaign



Create the contact frame (e.g., email addresses and telephone numbers)

Validate Respondent Submissions



Validate respondent addresses for those without a Census ID and prevent fraudulent submissions

Reduce Field
Workload for
Followup Activities



Remove vacant and nonresponding occupied housing units from the nonresponse followup workload

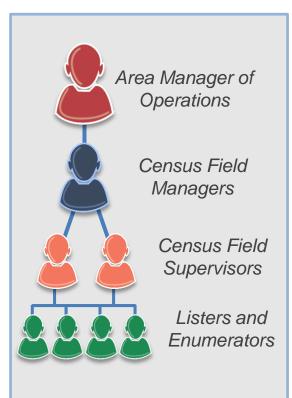


Optimize the number of contact attempts

# Reengineering Field Operations

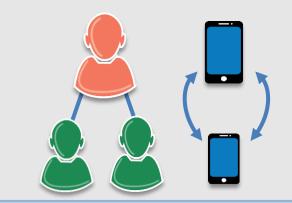
Use technology to more efficiently and effectively manage the 2020 Census fieldwork

# Streamlined Office and Staffing Structure



# Increased use of Technology

- Automated and optimized work assignments
- Automated recruiting, training, payroll and expense reporting
- Ability to conduct address updates and enumeration on same device
- Reduced paper and manual processing

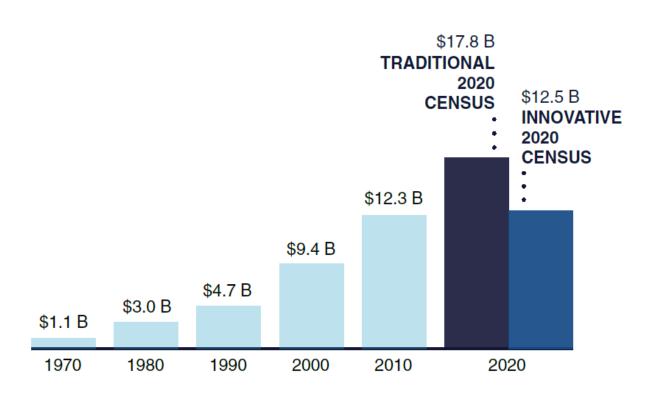


# **Increased Management** and Staff Productivity

- Increased visibility into case status for improved workforce management
- Redesigned quality assurance operations
- Improved communications



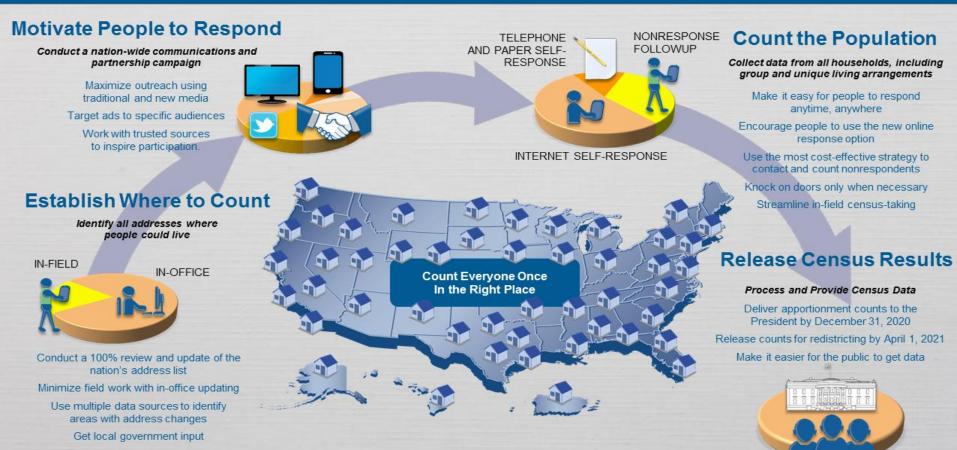
# **Estimated Lifecycle Costs**





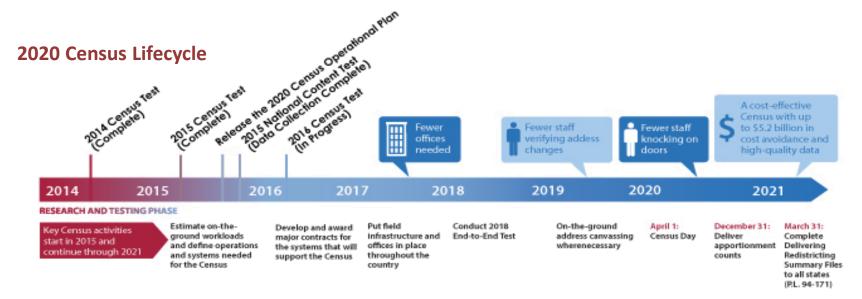
## A New Design for the 21st Century

#### The 2020 Census: A New Design for the 21st Century





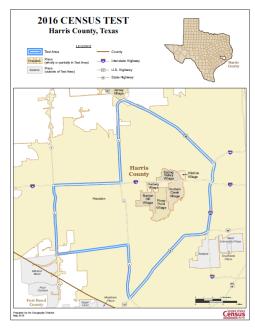
#### Where are we Today?



- Released the 2020 Census Memorandum
   Series which documents significant decisions, actions, and accomplishments of the 2020
   Census Program
- Conducting the 2016 Census Test in part of Los Angeles County, CA and part of Harris County, TX
- Posted a Federal Register Notice on the 2010 Census Residence Rule in May 2015 and a summary of comments received in February 2016
- Began tribal consultations in October
   2015 and will continue through April 2016
- Began the 2020 Census Redistricting Data Program Kick-off meetings in December 2015 and will continue through 2016

#### Overview

- Purpose: Refine technologies and methods associated with Self-Response and Nonresponse Followup operations
- April 1, 2016 Census Day
- A site test in parts of Harris County, TX and Los Angeles County, CA
  - Language diversity
  - Demographic diversity
  - High vacancy rates
  - Varying levels of Internet usage
  - Multiple locations across different time zones
  - Approximately 225,000 housing units in each test area





#### Self-Response: Overview

- Five Self-Response Contact Strategy Panels
- Multiple mailings to encourage self-response
- Provide language support to Limited English Proficient populations
  - Non-English questionnaires (Internet, paper, Census Questionnaire Assistance, Nonresponse Followup)
  - Multilingual brochures
  - Envelopes with messages written in non-English languages
- New Internet software application PRIMUS
- Refinement of Real-Time Non-ID Processing methods
- Partnerships to reach demographically diverse populations

Self-Response: Contact Strategies

Five Self-Response Contact Strategy Panels with Multiple Mailings

|   | Panel                                      | Contact 1<br>March 21, 2016       | Contact 2<br>March 24, 2016 | Contact 3<br>April 4, 2016 | Contact 4<br>April 11, 2016              | Contact 5<br>Nonresponse<br>Followup |
|---|--|-----------------------------------|-----------------------------|----------------------------|--|--------------------------------------|
| 1 | Internet Push                              | Letter                            | Postcard                    | Postcard                   | Mail<br>Questionnaire<br>+ Letter        | Postcard*                            |
| 2 | Internet Push<br>with reminder<br>letter   | Letter                            | Letter                      | Postcard                   | Mail<br>Questionnaire<br>+ Letter        | Postcard*                            |
| 3 | Internet Push<br>with language<br>brochure | Brochure                          | Postcard                    | Postcard                   | Mail<br>Questionnaire<br>+ Brochure      | Postcard*                            |
| 4 | Internet Push<br>with language<br>insert   | Letter<br>+ Insert                | Postcard                    | Postcard                   | Mail<br>Questionnaire<br>+ Letter/Insert | Postcard*                            |
| 5 | Internet<br>Choice                         | Mail<br>Questionnaire<br>+ Letter | Postcard                    | Postcard                   | Mail<br>Questionnaire<br>+ Letter        | Postcard*                            |

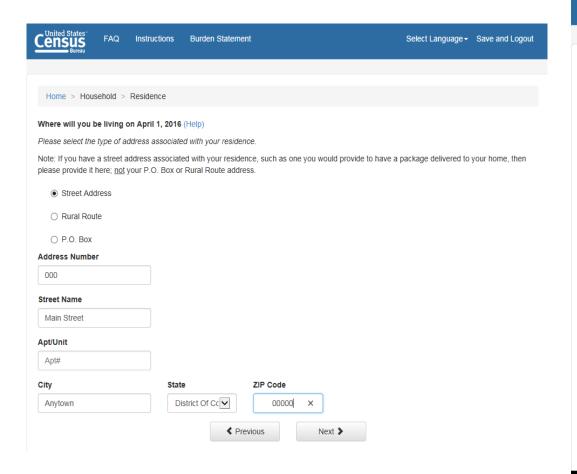


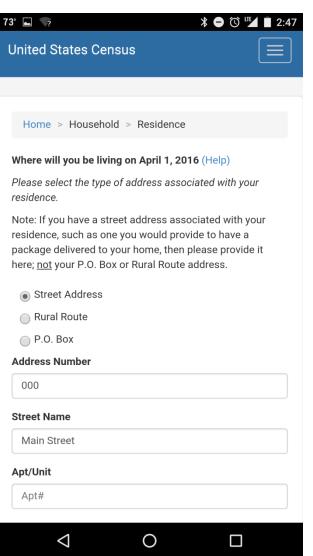
Self-Response: Language Materials

Language Materials Provided for the 2016 Census Test

| Operation/Materials                                      | Non-English Languages  |  |  |
|--|--|--|--|
| Internet Questionnaire                                   | Spanish, Chinese (Simplified), Korean  |  |  |
| Paper Questionnaire (and mailing materials)              | Spanish, Chinese (Simplified), Korean  |  |  |
| Nonresponse Followup Questionnaire (and field materials) | Spanish, Chinese (Simplified), Korean  |  |  |
| Census Questionnaire Assistance Interview                | Spanish, Chinese (Mandarin, Cantonese),<br>Korean, Vietnamese, Tagalog, Arabic, French                                 |  |  |
| Web Pages with Fact Sheet and FAQs                       | Spanish, Chinese (Simplified), Korean,<br>Vietnamese, Japanese, Tagalog, Arabic, Farsi,<br>Dari, French, Burmese, Thai |  |  |

## Self-Response: Internet

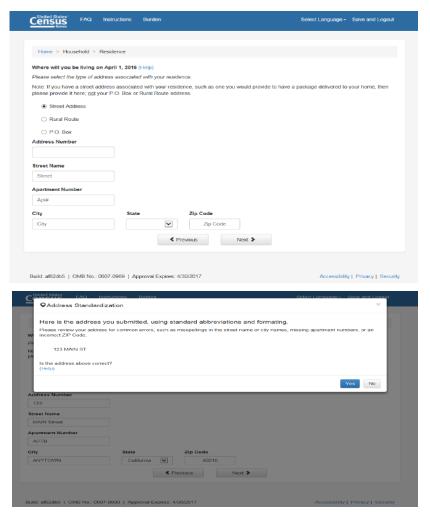


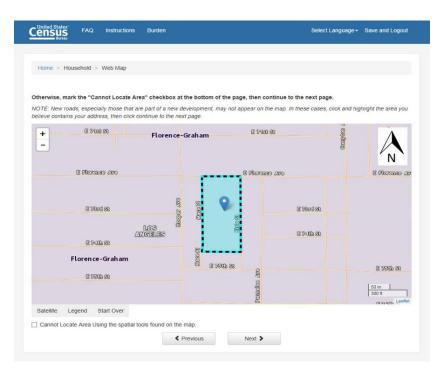




census.gov

# Self-Response: Non-ID Processing





#### Self-Response: Questionnaire

Questionnaire in Four Languages - English, Spanish, Chinese, and Korean



Spanish Chinese Korean

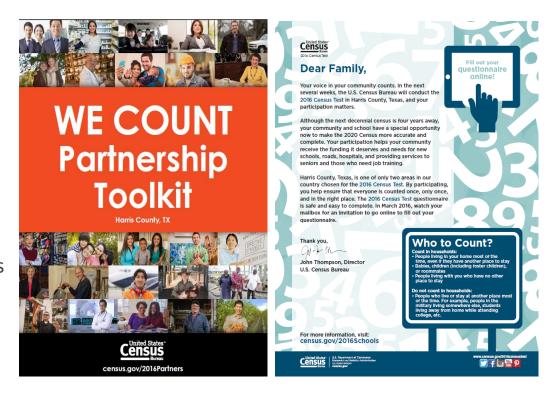
#### Partnership and Outreach

#### **Partnerships Toolkit**

Partnership Toolkits were developed for both Harris County, TX and Los Angeles County, CA

#### Contents include:

- Fast facts about the 2016 Census Test
- Email Samples
- Article Samples
- Event Hosting Tips
- Social Media Content
- A list of places with public computers
- Important Internet URLs



## Reengineering Field Operations

The 2016 Census Test is allowing us to operationalize our new methods and new technology across multiple locations and time zones during nonresponse followup.

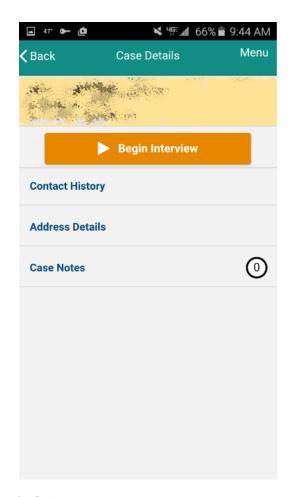
Our objectives related to nonresponse follow up include:

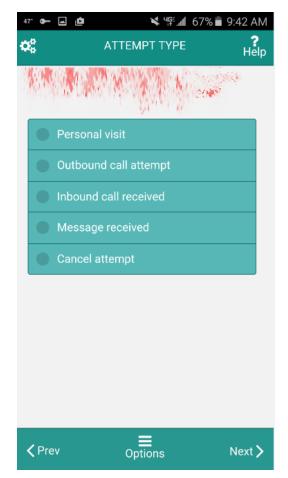
- Determine the nonresponse followup strategy for the 2020 Census how do we use administrative records to reduce the nonresponse followup universe and to determine the number of contacts we make with each nonresponding housing unit
- Refinement of the field management staffing structure
  - What is the best ratio of enumerators to local supervisors of operations and local supervisors of operations to field managers of operations
- Enhancements to the Operational Control System and COMPASS
- Refinement of the path in COMPASS to conduct proxy interviews
- Automated applications for field recruiting and administration
- Multi-unit accessibility and contact procedures

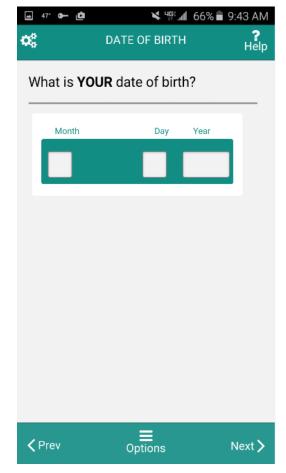
We are focusing on quality control in this test:

- Use of paradata and GPS points collected during interview
- Reinterview functionality
- Use of administrative records for in-house quality control

## Reengineering Field Operations: Nonresponse Followup









Note: Screenshot contains test data.

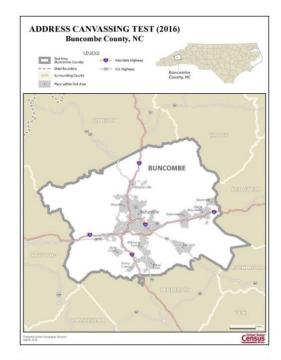
# **Upcoming Tests**

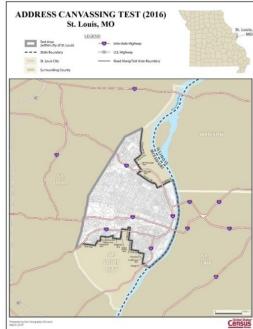
# **Address Canvassing Test**

#### Overview

- Begins in the Fall 2016
- Two contiguous sites, approximately 12,600 blocks in total
  - One site is a mix of urban, suburban and rural territories
  - One site is a principal city of a metropolitan statistical area

- Measure the effectiveness of In-Office Address
   Canvassing through In-Field Address Canvassing
- Measure the effectiveness of In-Field Address Canvassing
- Understand the implications of moving from Assignment Areas to Basic Collection Units (BCU)
- Conduct an In-Field Relisting to collect data to refine future Quality Control operations

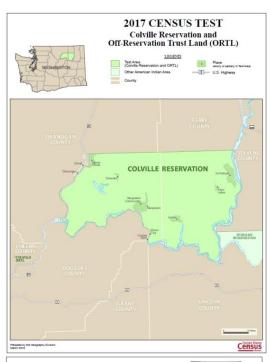




#### Overview

- April 1, 2017 Census Day
- A site test on tribal lands with Update Enumerate
- Additional testing through a nation-wide self-response test

- Test the integration of operations and systems for Update Enumerate
- Test the integration of operations and systems for Self-Response
- Test the feasibility of collecting tribal enrollment information





#### 2017 Puerto Rico Census Test

#### Overview

- April 1, 2017 Census Day
- A site test in Puerto Rico.

- Test the Address Canvassing operation in Puerto Rico
- Integrate Self-Response, Update Enumerate (UE), and Nonresponse Followup operations
- Test adaptive design and use of administrative records and third-party data in Puerto Rico
- Test Spanish versions of the software/systems needed to support Census activities



## 2018 Census End-to-End Test

#### Overview

April 1, 2018 Census Day

- Test and validate 2020 Census operations, procedures, systems, and field infrastructure together to ensure proper integration and conformance with functional and non-functional requirements
- Produce a prototype of geographic and data products

#### **Looking Ahead**

2016 Census Test (April 1st Census Day)

**Address Canvassing Test** 

2016

Boundary and Annexation Survey – Governmental entities receive their annual invitation to update their legal boundaries

Publish Proposed 2020 Residence Rule and Situations with 30-day Comment Period

**Award Integrated Communications Contract** 

Publish Final 2020 Residence Rule and Situations (Late 2016)

Award Contract for the 2020 Census Questionnaire Assistance (CQA)

**Puerto Rico Census Test** 

2017

2017 Census Test (April 1st Census Day)

Topics to Congress – by March 31, 2017

**Local Update of Census Addresses** – Invitations sent to governmental entities to participate in review of our Master Address File and is complete in 2018

2018

2018 End-to-End Test (April 1st Census Day)

Question Wording to Congress – by March 31, 2018.

2019

**Partnership Program** – Launch of the partnership program

Complete Count Committees – Formation of committee's should be complete

Advertising – Begins in early 2020

2020

Census Day – April 1, 2020

Nonresponse Followup – Begins in late April and continues until late June/early July

Apportionment Counts to the President – by December 31, 2020

2021

Redistricting Counts to the States – by March 31, 2021



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More information on the 2020 Census Memorandum Series:

http://www.census.gov/programssurveys/decennial-census/2020census/planning-management/memoseries.html



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More information on the 2020 Census: http://www.census.gov/2020Census



instagram.com/uscensusbureau



More information on the American Community Survey: http://www.census.gov/programs-surveys/acs/



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